ACT 1900

Intelligent D4 Channel Bank

Product Features

- Mounts in 19-inch relay racks
- D4 channel unit commonality protects investment
- Single digroup bank allows for cost-effective growth
- Reduced common equipment section enhances reliability
- Redundant power supply units enhance reliability
- Built-in intelligence
- Comprehensive DS0 and DS1 Performance Monitoring
- Compatible with Bellcore's NMA and OPS/INE using ADTRAN Site Manager
- Multiple communication links for easy monitoring and control
- Industry leading ten-year North American warranty

The ADTRAN® ACT 1900 is an intelligent D4 channel bank intended for central office (CO) installations where intelligence, low-cost commonality of channel units, and high reliability are desired. Based on industry standard D4 technology, the ACT 1900 accommodates a wide variety of low-cost channel units from numerous suppliers. Intelligent ADTRAN channel units, which provide DS0 performance monitoring and remote provisioning capabilities, complement the advanced functionality of the ACT 1900.

The ACT 1900 benefits from a reduced common equipment section consisting of only three common units: Bank Controller Unit (BCU), Line Interface Unit (LIU), and Power Supply Unit (PSU). The BCU is an intelligent controller for the bank providing non-intrusive communications to the channel units, control of the multiple communications ports, and storage of alarm, provisioning, and performance information. The communications ports consist of a local craft interface for terminal control, a modem access port, and an RS-485 interface to the ADTRAN Site Manager for management of multiple banks.

Enhancing the control and maintainability of the ACT 1900, the ADTRAN Site Manager provides centralized management for as many as 500 channel banks. It is a low cost, Network Equipment Building Standard (NEBS) compliant, VME-based computer, which connects to the ACT 1900s over a two-wire, addressable RS-485 communications link. The Site Manager also provides an interface to various Operations Support Systems (OSS) such as Bellcore's NMA and OPS/INE for alarm reporting, trouble isolation, and flow-through provisioning of intelligent ADTRAN channel units. Several protocols and connections are available for flexibility and network integration including TL1, SNMP, and an internal X.25 interface for WAN management.

The ACT 1900 monitors both the DS1 performance as well as the DS0 performance at the channel unit level. ADTRAN intelligent Performance Monitoring, or PM, channel units monitor the performance of the local loop to the customer's equipment and non-intrusively report the data collected to the BCU for storage for a maximum of seven days. The PM units are also provisionable either locally or remotely using the BCU craft interface and Site Manager, respectively. Six intelligent PM units are available: OCU DP/PM, DS0 DP/PM, U-BR1TE PM, E&M/TO PM, FXO/DPT PM, AND FXS/DPO PM. The DS0 performance information consists of parameters such as error performance, signal level, open-loop condition, and channel unit alarm or out-of-service condition.

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ADTRAN is a TL 9000 3.0 certified supplier.

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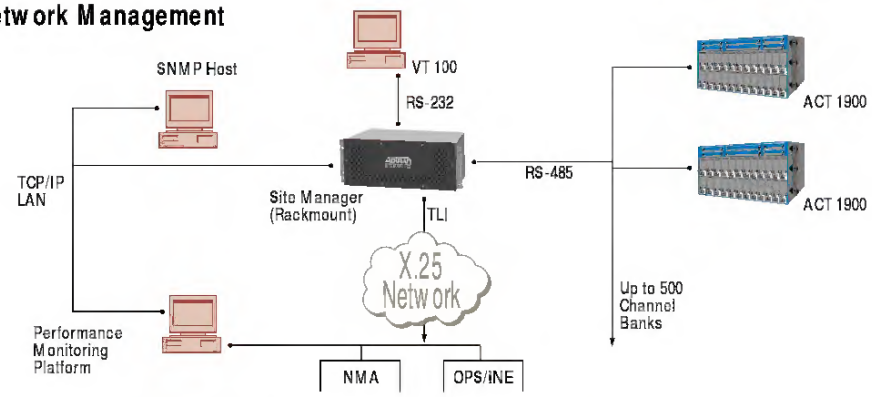
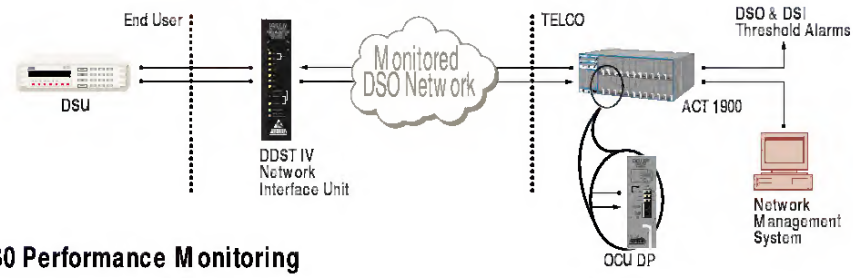
Network Management





DS0 Performance Monitoring

ACT 1900

Intelligent D4 Channel Bank

Product Specifications

Physical

- **Dimensions:** 19" W, 12" H, 12" D
- **Weight:** 15 lbs (with commons only)
- **Mounting:** 19-inch relay rack
- **Channel Unit Capacity:** 24 channel units
- **Channel Unit Mechanics:** WECO D4 mechanics

Rear Panel Connections:

- Five 25-pair amphenal loop connectors
- Wirewrap pins for T1, alarms, ring generator, power (A & B), and RS-485 bank communications
- One DB-25 connector for modem access

Electrical

Power Requirements:

- 48 VDC, 2 amps minimum
- Redundant 48 VDC power input
- **Operating Temperature:** –30° to 65°C
- **Storage:** –40° to 85°C (–40° to 185°F)
- **Relative Humidity:** Up to 95%, non-condensing

Bank Communications:

- VT 100 craft interface using EASYMENU
- RS-485 interface to Site Manager
- Modem access port

Network Management

Site Manager:

- Up to 500 ACT 1900s
- LAN interface to SNMP host management system
- X.25 interface supporting TL1
- RS-232 interface to VT 100 terminal

Complementary Products

Equipment	Part #
Site Manager	4150075L1
SMX PM	1109084L1
OCU DP/PM	1109005L3
DS0 DP/PM	1109003L1
U-BR1TE PM	1109020L1
E&M/TO PM	1109402L1
FXS/DPO PM	1109403L2
FXO/DPT PM	1109404L2

Ordering Information

Equipment	Part #
ACT 1900 system w/1 Power Supply	4150ACT1900L2
ACT 1900 system w/1 Power Supplies	4150ACT1900L4

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